

Title (en)
DUAL-STAGE PARABOLIC CONCENTRATOR

Title (de)
ZWEISTUFIGER PARABOLISCHER KONZENTRATOR

Title (fr)
CONCENTRATEUR PARABOLIQUE À DEUX ÉTAGES

Publication
EP 3152782 A2 20170412 (EN)

Application
EP 15810516 A 20150814

Priority
• IB 2015056204 W 20150814
• IN 2978CH2014 A 20140619

Abstract (en)
[origin: WO2015193870A2] An improvised Solar Concentrator and Absorber / Receiver Subsystem using a Dual-Stage Parabolic Concentrator for Concentrating Solar Power (CSP) (Thermal) system comprises of two parabolic mirrored reflectors wherein their apertures face each other with their focal point/line and axes coincides with each other, a plurality of absorber tubes/cavities placed on the non- reflecting side of the primary and/or secondary reflectors to carry heat transfer fluid, combined with relevant mechanisms to prevent/minimize thermal loss, mounted on a Sun tracking mechanism. For Concentrating Photovoltaic (CPV) and Concentrating Hybrid Thermo-Photovoltaic (CHTPV) Systems, all or a portion of the reflectors' reflecting and/or exterior surfaces would be covered or substituted with suitable photovoltaic panels.

IPC 8 full level
F24J 2/00 (2014.01); **F24J 2/06** (2006.01); **F24J 2/12** (2006.01); **F24J 2/38** (2014.01); **F24S 10/40** (2018.01); **F24S 23/00** (2018.01); **F24S 23/70** (2018.01); **F24S 23/71** (2018.01); **F24S 23/74** (2018.01); **F24S 23/79** (2018.01); **F24S 50/20** (2018.01); **H01L 25/00** (2006.01)

CPC (source: EP US)
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Designated contracting state (EPC)
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BA ME

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WO 2015193870 A2 20151223; **WO 2015193870 A3 20160526**; CN 106605363 A 20170426; CN 106605363 B 20201124; EP 3152782 A2 20170412; EP 3152782 A4 20171115; EP 3152782 B1 20190508; EP 3531040 A1 20190828; EP 3531040 B1 20210714; ES 2734191 T3 20191204; US 10063184 B2 20180828; US 2017054408 A1 20170223; US 2018062573 A1 20180301; US 9843287 B2 20171212

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